

FIG 1

FIG. 1 is a schematic diagram of a power distribution system 10. The system 10 includes a main power bus 53 connected to a series of loads: three houses 100, three industrial buildings 100, and a building 100 with a control unit 120. The bus 53 is connected to three transformer groups: 20, 30, and 40. Each transformer group consists of a primary winding (70, 75, 45) and a secondary winding (80, 90). Mobile units 24, 34, and 44 are connected to the secondary windings. A control unit 120 is also shown connected to the bus 53.

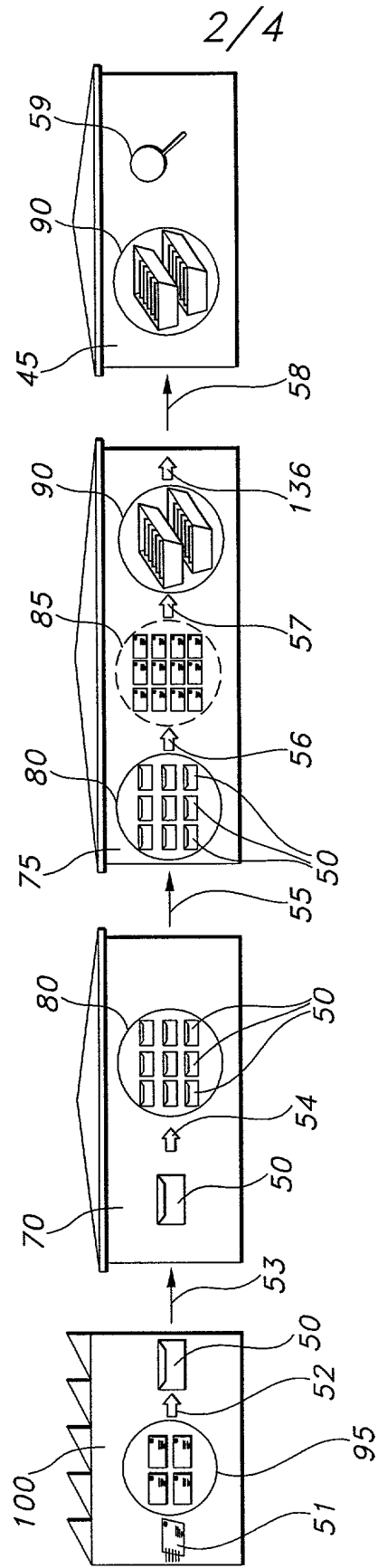


FIG 2

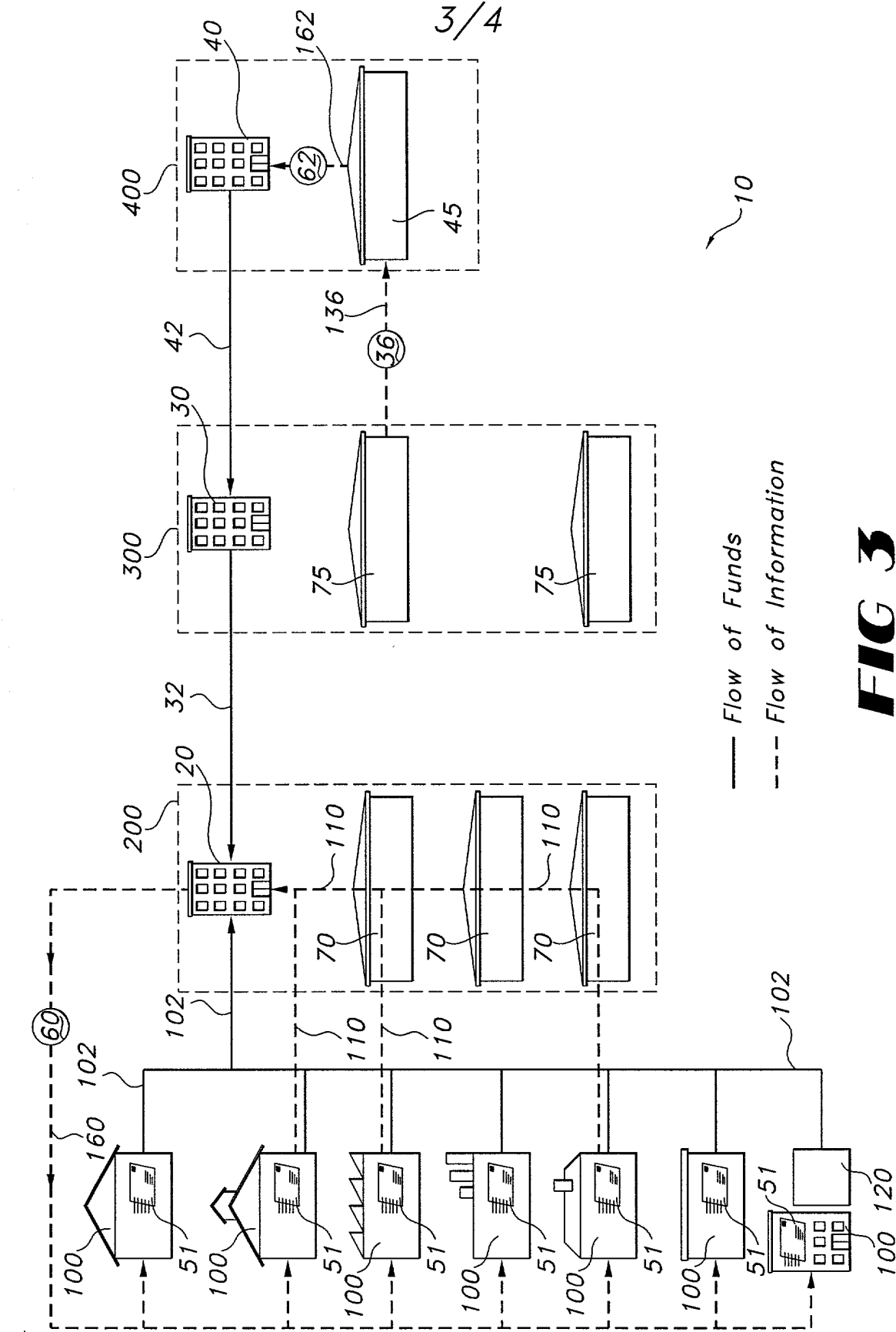
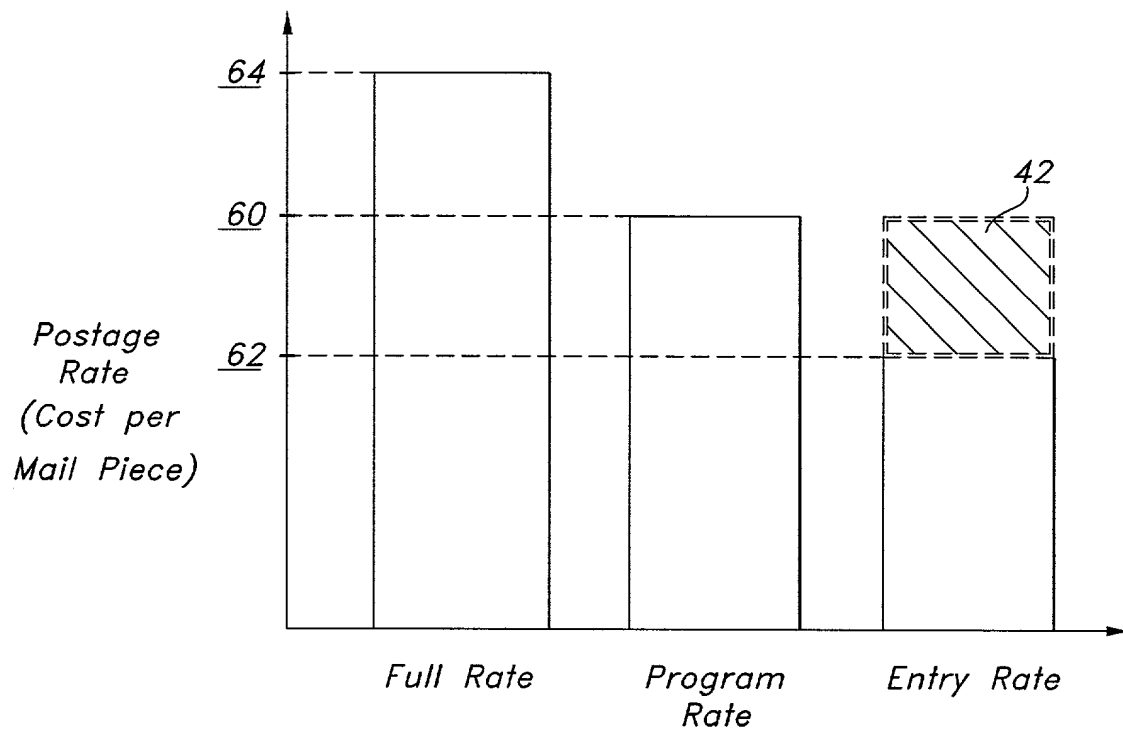


FIG 3

**FIG 4**